WASTE UTILIZATION PLAN FOR RANGELAND, HAYLAND, AND PASTURELAND

NOTE: THIS SPREADSHEET IS NOT INTENDED FOR USE ON PRODUCTION CROPLAND.

FUR:						DATE:			
COUNTY:									
ASSISTED	BY:								
RESOURCE INVENTORY						Type of Animal:			
RESOURC						Type of An	IIIIai.		
	= no. of animals								
	= avg. weight (I	•				. = 0 =			
	= no. of days/yr	•				LEGEND:		You enter num	
	= waste produc	ed - lb/day/1000	0# animal (as e	xcreted)				Numbers autor	natically
	= as excreted m	noisture content	% (varies with	type of anima	al)			calculated	
	•							Numbers from	manure
MANURE I	PRODUCTION A	AS EXCRETED						analysis or soil	s test
Total Manu	re Produced=		0 T					,	
	avg.wt.X1T/2000#X‡	#daysXwaste produc							
	Production =		0 T						
((100%-%moi	sture)Xtotal manure	produced,							
ASSLIME 3	30% MOISTURE	AT TIME OF I	AND ADDITION	TION					
		AT TIME OF L		TION					
Dry Matter	Remaining = oduced+(30%/70%X	dry matter produced	0 T						
(ury matter pro	0000ceu+(3076/7076X	dry maller produced	1),						
NUTRIENT	PRODUCTION	(may use average	e amounts from P.	Shelton or amour	nts from manu	ıre analysis)			
(beef, dairy, h	orse, & sheep will ha	ave different amount	s)						
, , ,	·	verage Nutrien	•		Ma	nure Analy	sis		
	NO3 - N =	10.490	lb/T	OR	<u></u>	7 (1141)	lb/T		
				OR					
			lb/T	_			lb/T		
	Org. N =		lb/T	OR			lb/T		
	P2O5 =		lb/T	OR			lb/T		
	K ₂ O =		lb/T	OR			lb/T		
Nutrionte	Available after	Minoralization	/minoralization rate	and the same and	of animal was	ta) (NO2 and N	III4 nitroga	on are available	
						ie) (NOS and N	in4 milioge	en are avallable	
-	ediately, while orgar		ivaliable as it gets t	proken down by n	ncrobes)				
	: mineralization rate	=					l		
	: available =		0 lb/T	OR			lb/T		
(mineralization	n rateXNO3 produce	ed,							
NIHA NI	: mineralization rate	_							
		-	O lb/T				lь/T		
	: available = n rateXNH4 produce		0 lb/T	OR			lb/T		
(ITIIITEI AIIZALIOI	TrateANT14 produce	u,							
Organic	N: mineralization ra	ate=							
•	N available =		0 lb/T	OR			lb/T		
	n rateXOrganicN pro	duced	0 10/ 1	OIX			IID/ I		
(ITIIITCT GIIZGLIOI	Tratex Organiciv pro	dacca,							
Total N	available =		0 lb/T	OR			lb/T		
(NO3+NH4+C	Organic N)								
	_								
	P: mineralization ra						Ī		
	P2O5 available =		0 lb/T	OR			lb/T		
(mineralization	n rateXP2O5 produc	red _,					•		
	17								
	K: mineralization ra	ate =					l		
	K2O available =		0 lb/T	OR			lb/T		
(mineralization	n rateXK2O produce	d,							

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	· · ·		
		(May use average amoun	ts from P. Shelton or amounts from soils test)
Where will manure be spread? Fill in as an Pasture Hayland Rangeland	propriate: Dryland Irrigated	% grass % legume	Goal Yield = T/ac
	<u>Average</u>		Soils Test
NO3-N soil content =	PPM	OR	PPM
P2O5 soil content =	PPM	OR	PPM
K2O soil content =	PPM	OR	PPM
		VY NRCS Agronomy Tech. No	ote 10 or Extension Service Bulletin B-1045)
N required =	lb/acre	(from Table 5)	
P2O5 required =	lb/acre	(from Table 6)	
K2O required =	lb/acre	(from Table 7)	
MANURE APPLICATION RATE	PER ACRE (nutrients requ	ired for your crop less the am	ount already in the soil)
Calculated fro	m average Nutrient Product	ion Calculat	ted from Manure Analysis
Applied at N rate:	#DIV/0! T Manure		#DIV/0! T Manure/ac
(N required/Total N available	11 Mariare	<i>,,</i> 40	Tividital Cido
Applied at P2O5 rate: (P2O5 required/P2O5 available,	#DIV/0! T Manure	e/ac	#DIV/0! T Manure/ac
Applied at K2O rate: (K2O required/K2O available,	#DIV/0! T Manure	e/ac	#DIV/0! T Manure/ac
ACRES NEEDED FOR APPLICA	TION (Based on manure pro	oduction)	
NOTE: For rangeland or dry pa			been performed, apply at 1/2
the calculated rate (in other wo		• •	from Manager and Oalla Tooks
	#DIV/0! acres	Calculated	from Manure and Soils Tests #DIV/0! acres
Applied at N rate: (Dry Matter remaining/N Application Rate,	#DIV/0: acres		#DIVIO: acies
Applied at P2O5 rate: (Dry Matter remaining/P2O5 Application Ra	#DIV/0! acres		#DIV/0! acres
ECONOMIC VALUE OF NUTRIE		umes 45% mineralizati	on rate of organic nitrogen)
Economic Value = Cost (\$) per lb of nutrier			
Nitrogen =	0.34 \$ per lb		
Phos =	0.17 \$ per lb		
Potass =	0.16 \$ per lb		
Nitrogen Value =	\$0.00 \$		\$0.00 \$
Phosphorous Value =	\$0.00 \$		0 \$
Potassium Value =	\$0.00 \$		0 \$

Narrative:

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***This spreadsheet was developed to simplify nutrient management and application on rangeland, hayland, and pastureland. The following will apply for the use of this spreadsheet only and for applications only on rangeland, hayland, and pastureland.

Rangeland: *In lieu of a soils test,* manure application will be on upland range sites. Site considerations will include: slopes (0 to 2% is preferred), distance to surface water, distance to groundwater, and soil depth.

Dry Pasture and Hayland: Use same criteria as for application on rangeland.

Irrigated Pasture and Hayland: A soils test will be required once every 5 years.

***If adequate suitable upland sites are not available for manure application, further specific site investigations will be required.

***A map or records showing application times and rates should be kept by the landowner/user.

***A manure analysis is strongly encouraged, although not required. The nutrient value of manure varies depending upon the type of feed, environmental conditions, and the way the manure is handled prior to application.

Signature of Landowner/User

Date

***This spreadsheet is available for your use to estimate waste production and application needs. Without the certification AND SIGNATURE of a certified NRCS specialist, NRCS makes no claims to the accuracy and validity of any figures on or obtained by the use of this spreadsheet or any part therein.

Date

Signature of NRCS Specialist

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